$\textit{MAGNETIC ANNEALING SEQUENCES FOR PATTERNED MRAM SYNTHETIC} \dots$

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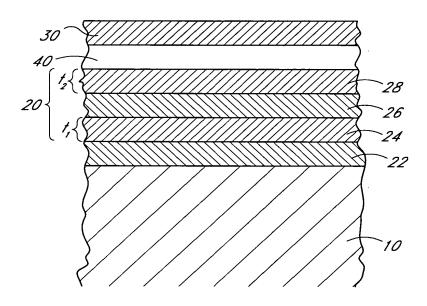


FIG. 1

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Provide an antiferromagnetic pinning layer

112

Provide a ferromagnetic pinned layer

113

Provide a spacer layer

114

Provide a ferromagnetic reference layer

Anneal the fixed layer based on the first thickness of the pinned layer and the second thickness of the reference layer

FIG. 2A

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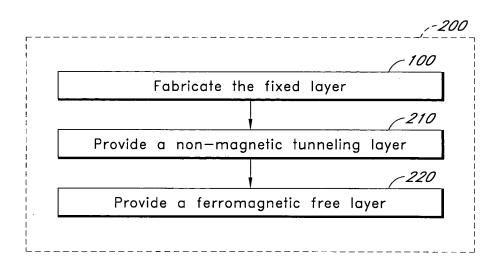
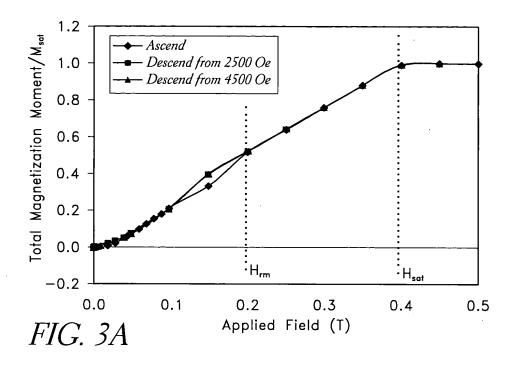
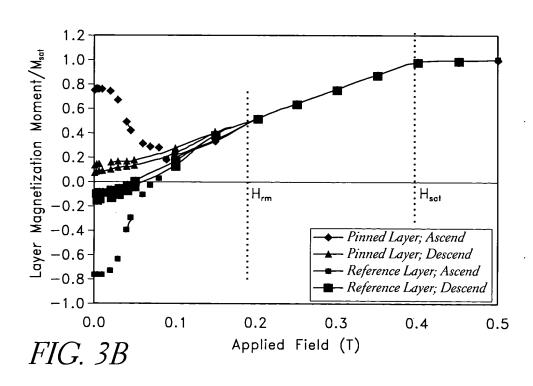


FIG. 2B

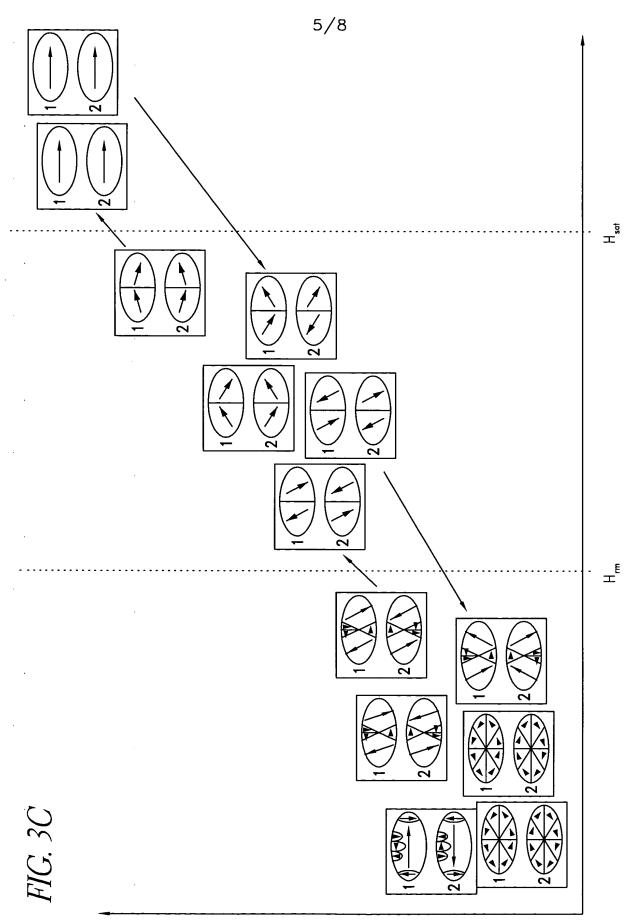
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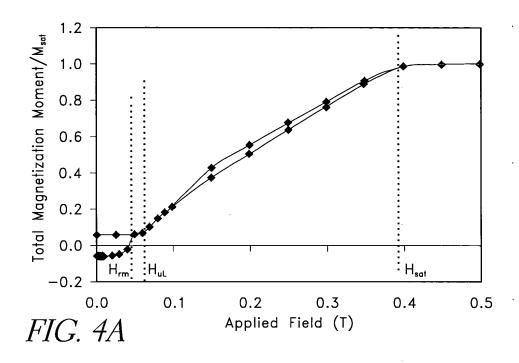


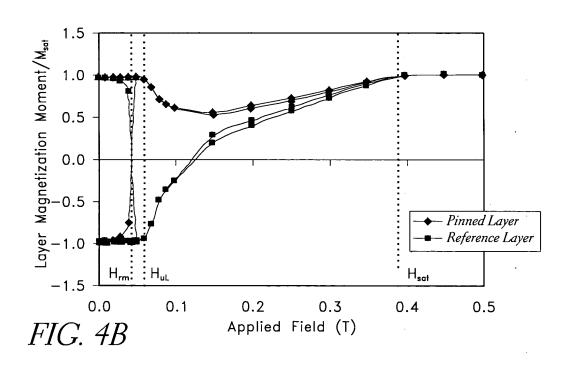
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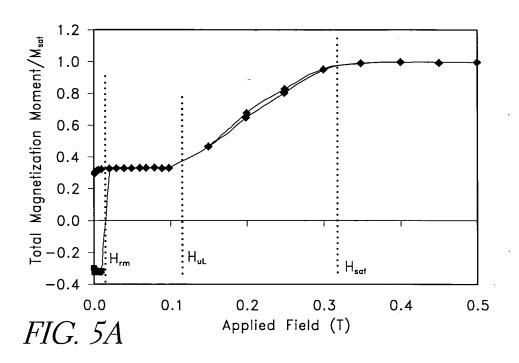
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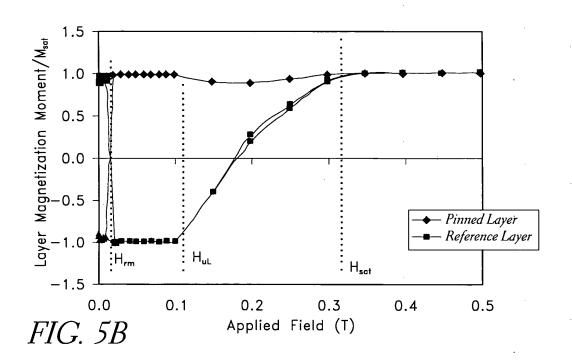


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